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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,025	11/20/2003	Tomohiro Oshiyama	KOT-0085	8793
	7590 01/28/2008		EXAMINER	
CANTOR COLBURN, LLP 20 Church Street 22nd Floor Hartford, CT 06103			THOMPSON, CAMIE S	
			ART UNIT	PAPER NUMBER
Transford, OT 0			1794	
	- 0 -	·	MAIL DATE	DELIVERY MODE
			01/28/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		Application No.	Applicant(s)	
		10/718,025	OSHIYAMA ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Camie S. Thompson	1794	
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.11 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)	Responsive to communication(s) filed on <u>American</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Expression 1.	action is non-final. nce except for formal matters, pro	osecution as to the merits is	
Dispositi	ion of Claims			
5)⊠ 6)⊠ 7)□ 8)□	Claim(s) 1-35 and 43-51 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) 22-35 and 43-51 is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or is a subject to restriction.	wn from consideration.		
	ion Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).	
Priority (under 35 U.S.C. § 119		•	
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
2) Notice	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F	ate	
	er No(s)/Mail Date	6) Other:	• •	

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DETAILED ACTION

- 1. Applicant's amendment and accompanying remarks filed November 12, 2007 are acknowledged.
- 2. Examiner acknowledges amended claim 1.
- 3. The rejection of claims 8-14 under 35 U.S.C. 102(e) as being anticipated by Sato et al.,
 U.S. Patent Number 6,893,743 is withdrawn due to applicant's argument.
- 4. The rejection of claims 43-51 under 35 U.S.C. 102(e) as being anticipated by Thoms et al., U.S. Pre 2003/0205696 is withdrawn due to applicant's argument.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 and 5-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Iwakuma et al., U.S. Pre Grant Publication 2004/0086745.

Iwakuma discloses an organic electroluminescence device comprising an organic thin film layer disposed between an anode and a cathode (see paragraph 0008 and 0012). Iwakuma discloses that the organic thin film layer comprises a compound

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(see compound A48 – page 14). The

reference reads on the present claims when X¹ of the present claims is , which is a divalent 6-membered monoyclic heterocyclic ring that is unsubstituted as per instant claim 1. It is disclosed in paragraph 0065 that the organic thin film layer can also comprise phosphorescent organometallic complexes wherein the metal is osmium, iridium or platinum (see also paragraph 0066). Compound A57 of the reference reads on present claim 8 when at least one of A1-A4 is – N= for formula n of present claim 8.

3. Claims 1-7 and 15-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato et al., U.S. Patent Number 6,893,743.

Sato discloses an organic electroluminescent device comprising a light-emitting layer sandwiched between an anode and a cathode (see column 4, lines 26-45). The reference discloses that the light-emitting layer comprises a host material

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$$R^2$$
 R^3
 R^3
 R^4
 R^{10}
 R^{1

R¹⁶ can be hydrogen as per instant claim 15 with the compound being H4 for the present claims (see column 7, line 1-column 8, line 20). It is disclosed in column 8, lines 20-23 that Z¹ can be a linking group which may have a substitutent in present claim 1. Column 4, lines 26-43 of the reference disclose that the light-emitting layer also comprises a phosphorescent material represented by an organic metal complex wherein the metal can be osmium, platinum or iridium as per instant claims 6-7 (see also column 50, lines 1-10). Additionally, the reference discloses a hole-blocking layer sandwiched between the light emitting layer and the cathode (see column 77, lines 31-40) wherein the hole-blocking layer can comprise a phenanthroline compound with a

Claims 22-35 and 43-51 are allowed. The prior art does not provide for an organic electroluminescent element comprising an anode, a cathode and a component layer including a light emission layer, the component layer being provided between the anode and the cathode, wherein the component layer contains a compound represented by formulae I1, I2, I3, J1 or J2

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[0066] Formula I2

$$(R_{25})_{it} \\ R_{9} \\ R_{i10} \\ R_{i11} \\ R_{i2} \\ (R_{26})_{it}$$

[0067] Formula I3

$$(R_{20})_{2}$$
 R_{113}
 R_{114}
 R_{115}
 R_{116}
 R_{116}
 R_{116}

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$$(R_{35})_{j_{0}} = (R_{75})_{r_{0}} = (R_{75})_{r$$

wherein R_{i1-i16} independently represent a hydrogen atom, an alkyl group, a cycloalkyl group, an aralkyl group, an alkoxy group or a halogen atom; R_{21-32} independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or a halogen atom; and iaio independently represent an integer of from 1 to 4; R_{j1-j12} independently represents a hydrogen atom, an alkyl group, a cycloalkyl group, an aralkyl group, an alkyoxy group or a halogen atom;

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R₃₃₋₄₀ independently represent a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted aralkyl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted aryloxy group, a cyano group, a hydroxyl group, a substituted or unsubstituted alkenyl group, or halogen atom; and ja-jh independently represent an integer of from 1 to 4.

Response to Arguments

4. Applicant's arguments with respect to claims 1-35 and 43-51 have been considered. However, the arguments are not persuasive. Applicant argues that amended claim 1 excludes compound 48 of Iwakuma reference. Although applicant has amended claim 1, the Iwakuma reference still reads on present claim 1 in that Xa can be divalent 6-membered monocyclic heterocyclic ring. Iwakuma's compound A48 has the 6-membered monocyclic heterocyclic ring,

. The Iwakuma reference is maintained. Applicant argues that the Sato reference does not read on present claim. Applicant is correct in his argument that Sato does not read on present claim 8 because claim 8 requires that at least one of A₁ to A₄ is -N=. Sato does not provide for this limitation. Applicant argues that formula j in the present claims represents a tetravalent cyclic hydrocarbon group. Sato discloses a linking group, a tetravalent cyclic hydrocarbon. The Sato reference is maintained. Present claims 8-14 are anticipated by Iwakuma by compound A57 of the reference. Therefore, this action is non-final.

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Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano, can be reached at (571) 272-1398. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700